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NOTICE OF ALLOWANCE AND FEE(S) DUE

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05/21/2003

DEL CHRISTENSEN SHELL OIL COMPANY P.O. BOX 2463 HOUSTON, TX 77252-2463 EXAMINER

SUCHFIELD, GEORGE &

ART UNIT CLASS-SUBCLASS

166:302000

3672

DATE MAILED: 05/21/2003

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/841 444	04/24/2001	Scott Lee Wellington	5659-02300/EBM	₹ 4543

TITLE OF INVENTION: IN SITU THERMAL PROCESSING OF A HYDROCARBON CONTAINING FORMATION IN A REDUCING ENVIRONMENT

APPLN. TYPE	SMALL ENTITY	ISSUE FEE	PUBLICATION FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	NO	\$1300	\$300	\$1600	08/21/2003

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. <u>PROSECUTION ON THE MERITS IS CLOSED.</u> THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 151. THE ISSUE FEE DUE INDICATED ABOVE REFLECTS A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE APPLIED IN THIS APPLICATION. THE PTOL-85B (OR AN EQUIVALENT) MUST BE RETURNED WITHIN THIS PERIOD EVEN IF NO FEE IS DUE OR THE APPLICATION WILL BE REGARDED AS ABANDONED.

HOW TO REPLY TO THIS NOTICE:

I. Review the SMALL ENTITY status shown above.

If the SMALL ENTITY is shown as YES, verify your current SMALL ENTITY status:

A. If the status is the same, pay the TOTAL FEE(S) DUE shown above.

B. If the status is changed, pay the PUBLICATION FEE (if required) and twice the amount of the ISSUE FEE shown above and notify the United States Patent and Trademark Office of the change in status, or

If the SMALL ENTITY is shown as NO:

- A. Pay TOTAL FEE(S) DUE shown above, or
- B. If applicant claimed SMALL ENTITY status before, or is now claiming SMALL ENTITY status, check the box below and enclose the PUBLICATION FEE and 1/2 the ISSUE FEE shown above.
 - □ Applicant claims SMALL ENTITY status. See 37 CFR 1.27. /
- II. PART B FEE(S) TRANSMITTAL should be completed and returned to the United States Patent and Trademark Office (USPTO) with your ISSUE FEE and PUBLICATION FEE (if required). Even if the fee(s) have already been paid, Part B Fee(s) Transmittal should be completed and returned. If you are charging the fee(s) to your deposit account, section "4b" of Part B Fee(s) Transmittal should be completed and an extra copy of the form should be submitted.
- III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Box ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.



Complete and send this form, together with applicable fee(s), to: Mail Mail Stop ISSUE FEE

Commissioner for Patents Alexandria, Virginia 22313-1450 (703)746-4000 Fax

INSTRUCTIONS: This form should be used for transmitting the ISSUE FEE and PUBLICATION FEE (if required). Blocks 1 through 4 should be completed where appropriate. All further correspondence including the Patent, advance orders and notification of maintenance fees will be mailed to the current correspondence address as indicated unless corrected below or directed otherwise in Block 1, by (a) specifying a new correspondence address; and/or (b) indicating a separate "FEE ADDRESS" for maintenance fee notifications.

CURRENT CORRESPONDENCE ADDRESS (Note: Legibly mark-up with any corrections or use Block 1)

Note: A certificate of mailing can only be used for domestic mailings of the

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05/21/2003

DEL CHRISTENSEN SHELL OIL COMPANY P.O. BOX 2463 HOUSTON, TX 77252-2463 Note: A certificate of mailing can only be used for domestic mailings of the Fee(s) Transmittal. This certificate cannot be used for any other accompanying papers. Each additional paper, such as an assignment or formal drawing, must have its own certificate of mailing or transmission.

Certificate of Mailing or Transmission I hereby certify that this Fee(s) Transmittal is being deposited with the United States Postal Service with sufficient postage for first class mail in an envelope addressed to the Box Issue Fee address above, or being facsimile transmitted to the USPTO, on the date indicated below.

(Depositor's name)	
(Signature)	
(Date)	

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09/841,444	04/24/2001	Scott Lee Wellington	5659-02300/EBM	4543

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nonprovisional	NO	\$1300	\$300	\$1600	08/21/2003
EXAMI	NER	ART UNIT	CLASS-SUBCLASS		
SUCHFIELD,	GEORGE A	3672	166-302000		
1. Change of corresponden CFR 1.363).	nce address or indication of	"Fee Address" (37	2. For printing on the patent from the names of up to 3 registered	patent attorneys	
☐ Change of correspondence address (or Change of Correspondence Address form PTO/SB/122) attached.			or agents OR, alternatively, (2) the name of a single firm (having as a member a registered attorney or agent) and the names of up to 2		
☐ "Fee Address" indication (or "Fee Address" Indication form PTO/SB/47; Rev 03-02 or more recent) attached. Use of a Customer Number is required.		registered patent attorneys or ag is listed, no name will be printed.	ents. If no name		

3. ASSIGNEE NAME AND RESIDENCE DATA TO BE PRINTED ON THE PATENT (print or type)

PLEASE NOTE: Unless an assignee is identified below, no assignee data will appear on the patent. Inclusion of assignee data is only appropriate when an assignment has been previously submitted to the USPTO or is being submitted under separate cover. Completion of this form is NOT a substitute for filing an assignment.

(A) NAME OF ASSIGNEE (B) RESIDENCE: (CITY and STATE OR COUNTRY)

Please check the appropriate assignee category or ca	ories (will not be printed on the patent) 🔲 individual 🚨 corporation or other private group entity 🚨 govern
4a. The following fee(s) are enclosed:	4b. Payment of Fee(s):
☐ Issue Fee	\square A check in the amount of the fee(s) is enclosed.
□ Publication Fee	☐ Payment by credit card. Form PTO-2038 is attached.
☐ Advance Order - # of Copies	☐ The Commissioner is hereby authorized by charge the required fee(s), or credit any overpaymen Deposit Account Number(enclose an extra copy of this form).
Commissioner for Patents is requested to apply the I	e Fee and Publication Fee (if any) or to re-apply any previously paid issue fee to the application identified above.
(Authorized Signature)	(Date)
NOTE; The Issue Fee and Publication Fee (if re other than the applicant; a registered attorney of interest as shown by the records of the United State This collection of information is required by 37 obtain or retain a benefit by the public which is application. Confidentiality is governed by 35 U.S. estimated to take 12 minutes to complete, includir completed application form to the USPTO. Time case. Any comments on the amount of time y suggestions for reducing this burden, should be s Patent and Trademark Office, U.S. Departme 22313-1450. DO NOT SEND FEES OR COM SEND TO: Commissioner for Patents, Alexandria,	gent; or the assignee or other party in atent and Trademark Office. I.311. The information is required to file (and by the USPTO to process) an 122 and 37 CFR 1.14. This collection is gathering, preparing, and submitting the ill vary depending upon the individual require to complete this form and/or to the Chief Information Officer, U.S. of Commerce, Alexandria, Virginia ETED FORMS TO THIS ADDRESS.
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09/841,444	04/24/2001	Scott Lee Wellington	5659-02300/EBM	4543
7590 05/21/2003			EXAMINER	
DEL CHRISTENSEN			SUCHFIELD, GEORGE A	
P.O. BOX 2463	PANI		ART UNIT	PAPER NUMBER
HOUSTON, TX 77	7252-2463		3672	
			DATE MAILED: 05/21/2003	

Determination of Patent Term Adjustment under 35 U.S.C. 154 (b) (application filed on or after May 29, 2000)

The patent term adjustment to date is 116 days. If the issue fee is paid on the date that is three months after the mailing date of this notice and the patent issues on the Tuesday before the date that is 28 weeks (six and a half months) after the mailing date of this notice, the term adjustment will be 116 days.

If a continued prosecution application (CPA) was filed in the above-identified application, the filing date that determines patent term adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) system. (http://pair.uspto.gov)

Any questions regarding the patent term extension or adjustment determination should be directed to the Office of Patent Legal Administration at (703)305-1383.



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DEL CHRISTENSEN			SUCHFIELD, GEORGE A		
SHELL OIL COMP P.O. BOX 2463	PANY		ART UNIT	PAPER NUMBER	
HOUSTON, TX 77			3672 .		
UNITED STATES			DATE MAILED: 05/21/2003		

Notice of Fee Increase on January 1, 2003

If a reply to a "Notice of Allowance and Fee(s) Due" is filed in the Office on or after January 1, 2003, then the amount due will be higher than that set forth in the "Notice of Allowance and Fee(s) Due" since there will be an increase in fees effective on January 1, 2003. See Revision of Patent and Trademark Fees for Fiscal Year 2003; Final Rule, 67 Fed. Reg. 70847, 70849 (November 27, 2002).

The current fee schedule is accessible from: http://www.uspto.gov/main/howtofees.htm,

If the issue fee paid is the amount shown on the "Notice of Allowance and Fee(s) Due," but not the correct amount in view of the fee increase, a "Notice to Pay Balance of Issue Fee" will be mailed to applicant. In order to avoid processing delays associated with mailing of a "Notice to Pay Balance of Issue Fee," if the response to the Notice of Allowance and Fee(s) due form is to be filed on or after January 1, 2003 (or mailed with a certificate of mailing on or after January 1, 2003), the issue fee paid should be the fee that is required at the time the fee is paid. If the issue fee was previously paid, and the response to the "Notice of Allowance and Fee(s) Due" includes a request to apply a previously-paid issue fee to the issue fee now due, then the difference between the issue fee amount at the time the response is filed and the previously paid issue fee should be paid. See Manual of Patent Examining Procedure, Section 1308.01 (Eighth Edition, August 2001).

Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at (703) 305-8283.

	Application No.	Applicant(s)					
Nedies of Allege bilide	09/841,444	WELLINGTON ET AL.					
Notice of Allowability	Examiner	Art Unit					
	George Suchfield	3672					
The MAILING DATE of this communication apper All claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RI of the Office or upon petition by the applicant. See 37 CFR 1.313	(OR REMAINS) CLOSED in this a or other appropriat communicati GHTS. This application is subject	application. If not included on will be mailed in due course. THIS					
<u> </u>	This communication is responsive to <u>5/12/03 and 3/17/03 Communications</u> .						
	he allowed claim(s) is/are <u>2117-2124,2126-2162,2164-2192 and 5396-5402</u> .						
 3. The drawings filed on 24 March 2003 are accepted by the 14. Acknowledgment is made of a claim for foreign priority und a) All b) Some* c) None of the: 1. Certified copies of the priority documents have 	er 35 U.S.C. § 119(a)-(d) or (f).						
2. Certified copies of the priority documents have	been received in Application No.						
 Copies of the certified copies of the priority doc International Bureau (PCT Rule 17.2(a)). 	* *						
* Certified copies not received: 5. Acknowledgment is made of a claim for domestic priority ur	nder 35 U.S.C. § 119(e) (to a prov	isional application).					
(a) The translation of the foreign language provisional a							
6. \square Acknowledgment is made of a claim for domestic priority ur	nder 35 U.S.C. §§ 120 and/or 121						
Applicant has THREE MONTHS FROM THE "MAILING DATE" of below. Failure to timely comply will result in ABANDONMENT of to a SUBSTITUTE OATH OR DECLARATION must be subm	his application. THIS THREE-Mo	ONTH PERIOD IS NOT EXTENDABLE. ER'S AMENDMENT or NOTICE OF					
INFORMAL PATENT APPLICATION (PTO-152) which gives reason	on(s) why the oath or declaration	is deficient.					
8. CORRECTED DRAWINGS must be submitted. (a) including changes required by the Notice of Draftspers 1) hereto or 2) to Paper No							
(b) ☐ including changes required by the proposed drawing of(c) ☐ including changes required by the attached Examiner's		* * * * * * * * * * * * * * * * * * * *					
Identifying indicia such as the application number (see 37 CFR 1. each sheet.	84(c)) should be written on the drav	vings in the front (not the back) of					
9. DEPOSIT OF and/or INFORMATION about the depos attached Examiner's comment regarding REQUIREMENT FOR TI							
Attachment(s)							
 1 □ Notice of References Cited (PTO-892) 3 □ Notice of Draftperson's Patent Drawing Review (PTO-948) 5 ☑ Information Disclosure Statements (PTO-1449), Paper No. [€ 7 □ Examiner's Comment Regarding Requirement for Deposit of Biological Material 	4⊠ Interview Sum 4⊉0 6⊡ Examiner's An	mal Patent Application (PTO-152) mary (PTO-413), Paper No. <u>24</u> . nendment/Comment atement of Reasons for Allowance George Suchfield Primary Examiner Art Unit: 3672					